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SOURCE

Gidroelektricheskiye stantsii, Professor F. F. Gubin, p 746,

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OFFICIAL CLASSIFICATION OF HYDROELECTRIC POWER STATIONS
AND THEIR INSTALLATIONS IN THE USSR

To establish certain norms for permitted loads, reserve factors, and cer-
tain other standards to be used in the planning and construction of hydroelec-
tric power stations, it was found expedient to subject them to a certain classi-
fication. The special instruction for planning (L 34), issued by "Glavgidroen-
ergostroy" MES (Main Administration of Hydroelectric Power-Plant Construction
of the Ministry of Electric Power Stations), divides hydroelectric power plants
into four grades according to their capacities and annual output, as shown in
the following table:

Grade	Capacity (kw)	Average Output (million kw hr/yr)
1	Over 150,000	Over 500
2	25,000-150,000	Over 100 but below 500
3	5,000- 25,000	Over 20 but below 100
4	Below 5,000	Below 20

A hydroelectric power station consists of various installations which are
divided into three types according to their importance:

1. Basic installations whose regular operation directly influences the
capacity and output of the hydroelectric station.
2. Secondary installations having little influence on the performance of
the power station.
3. Auxiliary installations having no influence on the performance of the
power station.

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According to the length of service required of the hydroelectric power stations, they are classified as follows: permanent; temporary, i.e., up to 5 years; temporary of short duration, i.e., up to one or 2 years.

Based on the above definitions, various installations of hydroelectric power stations in different grades are classified as follows:

1. Class I, extra heavy duty, including the basic installations of hydroelectric power stations of the first grade and certain other structures.
2. Class II, heavy duty, including the basic installations of power stations of the second grade, secondary installations of stations of the first grade, and certain other structures.
3. Class III, light duty, including basic installations of stations of the third and fourth grades, and the secondary installations of stations of the second grade.
4. Class IV, temporary installations, including all installations of temporary hydroelectric power stations, auxiliary installations of stations of all grades, and secondary installations of stations of the third and fourth grades.
5. Class V, installations of short duration, including auxiliary wooden structures whose life time does not exceed one or 2 years.

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